

What is claimed is:

1. An Internet telephone system for making a telephone call through Internet, comprising:

- a) a first telephone set,
- 5 b) a first modem coupled to the first telephone set for communicating with the Internet,
- c) a second telephone set,
- d) a second modem coupled to the second telephone set for communicating with the Internet, and
- 10 e) a server connected to the Internet for storing a telephone number and an IP address corresponding to the telephone number,

wherein said first modem, after being assigned with an IP address, transmits a telephone number of the first telephone set and the assigned IP address to the server to register the telephone number and the assigned IP address in the server, and acquires an IP address corresponding to a telephone number of the second telephone set from the server, when the telephone number of the second telephone set is entered in the first telephone set, and then connects to said second modem.

20 2. The Internet telephone system of claim 1,
wherein said first modem and said first telephone set include a common function.

3. The Internet telephone system of claim 1,
25 wherein said first modem communicates with said second modem through a public switching network if not replied from the server.

4. The Internet telephone system of claim 1,

wherein said first modem communicates with said second modem through a public switching network if the IP address corresponding to the telephone number of the second telephone set is not received from the server.

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5. The Internet telephone system of claim 1,

wherein said first modem communicates with said second modem through a public switching network if not replied from the second modem when making a connection operation to the second modem by obtaining the IP address corresponding to the telephone number of the second telephone set from the server.

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6. The Internet telephone system of claim 1,

wherein said first modem stores registration information if not replied from the server after transmitting registration information to the server, and transmits the registration information again to the server to register the registration information in the server when the telephone number is entered in the first telephone set.

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20 7. The Internet telephone system of claim 1, further comprising:

f) a host server of the server,

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wherein if an IP address of the server is a local IP address usable within a specific network, a unique IP address of the server and the telephone number registered in the server are registered in the host server by relating to each other.

8. An Internet telephone apparatus for making a telephone call

through Internet, comprising:

a) a telephone set, and

b) a modem coupled to the telephone set for communicating with the Internet,

5 wherein said modem, after being assigned with the IP address, transmits a telephone number of the telephone set and the assigned IP address to a server connected to the Internet to register the telephone number and the assigned IP address in the server, and acquires an IP address corresponding to a telephone number of a destination side from the server,
10 when the telephone number of the destination side is entered in the telephone set, and then makes a connection operation.

9. The Internet telephone apparatus of claim 8,
 wherein said telephone apparatus communicates with the destination
15 side through a public switching network if not replied from the server.

10. The Internet telephone apparatus of claim 8,
 wherein said telephone apparatus communicates with the destination
 side through a public switching network if the IP address corresponding to the
20 telephone number of the destination side is not received from the server.

11. The Internet telephone apparatus of claim 8,
 wherein said telephone apparatus communicates with the destination
 side through a public switching network if not replied from the destination
25 side, when making a connection operation to the destination side by obtaining the IP address corresponding to the telephone number of the destination side from the server.

12. The Internet telephone apparatus of claim 8,
wherein said telephone apparatus stores registration information if
not replied from the server after transmitting registration information to the
5 server, and transmits the registration information again to the server to
register the registration information in the server when the telephone number
is entered in the telephone set.

13. The Internet telephone apparatus of claim 8,
10 wherein if the IP address of the destination side is a local IP address,
an IP address of other server connected to the destination side, and the
telephone number of the destination side are acquired from a host server of
the server, and a connection operation is made.

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